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FS 3100 Automated Chemistry Analyzer Methods

Analyte	Technique	Method	Operating Range	MDL[1]	Throughput	Cartridge	Carrier
Ammonia	FIA/SFA Gas DIffusion	USEPA 350.1	0.01-20.0 ppm	0.001 ppm	40 samples/hr	PN 327152	Reagent Water
Ammonia	SFA	USEPA 350.1	0.01–25.0 ppm	0.003 ppm	72 samples/hr	PN 324504	Reagent Water
Ammonia	FIA	USEPA 350.1	0.01–20.0 ppm	0.002 ppm	51 samples/hr	PN 323656	Reagent Water
Ammonia in Seawater	SFA	USEPA 349.0	2.0–2,000 ppb (0.15–143 µmol/L)	1.0 ppb 0.07 µmol/L	30 samples/hr	PN 325659	Seawater
Amylose in Rice	SFA	China Standard Methods GB/T	1.0–250 ppm	0.033 ppm	40 samples/hr	PN 324360	Reagent Water
Anionic Surfactants	SFA	Standard Methods 5540	0.03-5.0 ppm	0.005 ppm	24 samples/hr	PN 328928	Reagent Water
Chloride	SFA	USEPA 325.2	1.0–200.0 ppm	0.12 ppm	60 samples/hr	PN 324420	Reagent Water
Chloride	FIA	USEPA 325.2	0.2–200.0 ppm	0.07 ppm	80 samples/hr	PN 324060	Reagent Water
Cyanide-Available	FIA	OIA-1677 / ASTM D6888-04	2.0–5,000 ppb	0.5 ppb	30–90 samples/hr	PN 324405	Reagent Water
Cyanide, Total	FIA/UV-Digestion	ASTM D7511-09	2.0–5,000 ppb	0.5 ppb	30 samples/hr	PN 325581	Reagent Water
Cyanide, Total Post –distillation	FIA	USEPA 335.4	5.0–500 ppb	0.5 ppb	30 samples/hr	PN 324403	Reagent Water

Publication 27490413

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Cyanide, Total Post-distillation	FIA	ASTM D7284-08	2.0–400 ppb	0.5 ppb	30–90 samples/hr	PN 324405	Reagent Water
Cyanide–Free	FIA	ASTM D7237-06	2.0–400 ppb	0.5 ppb	30–90 samples/hr	PN 324405	Reagent Water
Fluoride	FIA	Standard Methods 4500–F	0.1–4.0 ppm	0.05 ppm	24 samples/hr	PN 325663	Reagent Water
Nitrate/Nitrite	SFA	USEPA 353.2	0.005–10.0 ppm	0.0005 ppm	55 samples/hr	PN 324422	Reagent Water
Nitrate/Nitrite	FIA	USEPA 353.2	0.005–10.0 ppm	0.002 ppm	60 samples/hr	PN 323657	Reagent Water
Nitrate/Nitrite in Seawater	SFA	USEPA 353.4	1.0–5,000 ppb (0.07–357 µmol/L)	0.25 ppb 0.018 µmol/L	30 samples/hr	PN 325658	Seawater
Nitrite	SFA	USEPA 353.2	0.005–5.0 ppm	0.0004 ppm	60 samples/hr	PN 324501	Reagent Water
Nitrite	FIA	USEPA 353.2	0.01–10.0 ppm	0.002 ppm	60–120 samples/hr	PN 324255	Reagent Water
Orthophosphate	SFA	USEPA 365.1	0.01–2.0 ppm	0.001 ppm	45 samples/hr	PN 324406	Reagent Water
Orthophosphate	FIA	USEPA 365.1	0.01–5.0 ppm	0.001 ppm	60 samples/hr	PN 323658	Reagent Water
Orthophosphate in Seawater	SFA	USEPA 365.5	1.0–400 ppb (0.03–13 µmol/L)	0.25 ppb 0.008 µmol/L	30 samples/hr	PN 325657	Seawater
Phenol–Post Distillation	SFA	USEPA 420.4	5–500 ppb	0.5 ppb	30 samples/hr	PN 324525	Reagent Water
Phenol–Post Distillation	FIA	USEPA 420.4	10.0–2,000 ppb	2.0 ppb	90 samples/hr	PN 324061	Reagent Water
Silica	SFA	Standard Methods 4500–SiO_2 E	0.20–20.0 ppm	0.02 ppm	69 samples/hr	PN 324523	Reagent Water
Silica	FIA	Standard Methods 4500–SiO_2 F	0.05–50.0 ppm	0.005 ppm	60 samples/hr	PN 324062	Reagent Water
Silica in Seawater	SFA	USEPA 366.0	6–6,000 ppb (0.21–214 µmol/L)	1.0 ppb 0.035 µmol/L	30 samples/hr	325662	Seawater

Analyte	Technique	Method	Operating Range	MDL[1]	Throughput	Cartridge	Carrier
Sulfate	FIA	USEPA 375.2	1.0–300 ppm	0.5 ppm	65 samples/hr	PN 325626	Reagent Water
Sulfide	FIA	Standard Methods 4500-S^{2-} D	2.0–5,000 ppb	0.3 ppb	60 samples/hr	PN 324514	Reagent Water
Total Alkalinity	FIA	USEPA 310.2	10.0–600.0 ppm	5.0 ppm	90 samples/hr	PN 324059	Reagent Water
TKN	FIA/SFA Gas Diffusion	USEPA 351.2	0.01-20.0 ppm	0.001 ppm	40 samples/hr	PN 327152	Reagent Water
TKN	SFA	USEPA 351.2	0.05–20.0 ppm	0.008 ppm	60 samples/hr	PN 324506	4% Sulfuric Acid
TKN	FIA	USEPA 351.2	0.05–20.0 ppm	0.01 ppm	60 samples/hr	PN 324063	4% Sulfuric Acid
TKP	SFA	USEPA 365.4	0.01–20.0 ppm	0.003 ppm	60 samples/hr	PN 324418	4% Sulfuric Acid
TKP	FIA	USEPA 365.4	0.02–2.0 ppm	0.005 ppm	60 samples/hr	PN 324064	4% Sulfuric Acid
TP Persulfate	SFA	USEPA 365.1	0.001–1.0 ppm	0.0007 ppm	33 samples/hr	PN 325652	0.22 N Sulfuric Acid

[1] Method Detection Limit (MDL) determined in accordance with 40 CFR Part 136 Appendix B

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